

Karjaanjoki LIFE – INNOWA (2001-2005)

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Karjaanjoki LIFE – INNOWA (2001-2005)

INtegrated river catchment management – a Network for Optimized WAter management, rehabilitation and protection of aquatic ecosystems in Karjaanjoki area (LIFE- 00 ENV/FIN/000668)

Financing

- Total costs 2,3 MEuro
- Native contribution 1,2 MEuro
- LIFE environment funding 1,1
 MEuro
- Beneficiary City of Lohja,
 Finland





Karjaanjoki river basin

Facts	
River basin area	2046 km ²
Lake percentage	12 %
Lake Lohjanjärvi	92 km ²
Lake Hiidenvesi	30 km ²
Rivers, streams	1800 km
Summer cottages	7600
Inhabitants	50 000



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AIMS

- To develop novel and efficient methods for water management and protection
- To form a functional network of 32 partners and financiers
- To combine wide range of expertise
- Emphasize communication





Subprojects

- 1. Ecological restoration of running waters
- 2. Management of Lake Lohjanjärvi
- 3. Master plan for Mustionjokilaakso
- Water pollution control methods in agriculture
- 5. Water pollution control methods in forestry
- 6. Recreational use of Karjaanjoki river basin
- 7. River basin monitoring systems





Main results and conclusions 1/2 Ecological restoration of running waterssubproject Photo: Aki Janatuine



- Surveys on small streams and brooks, trout stocks and barriers for fish migration are necessary information for river catchment restoration
- Biological and recreational values are being emphasized more in comparison to the financial values



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Main results and conclusions 2/2

Management of Lake Lohjanjärvi-subproject

- Volunteers took part in the monitoring (transparency measurements, algal monitoring)
- → data used in remote sensing
- Mathematical modelling, remote sensing and volunteer monitoring pointed out where restoration activities should be directed

Karjaanjoki LIF

→ The main aim is to direct restoration activities to the upper river basin area



Implementation of WFD in the area 1/2

- Good status of surface waters is achieved only by comprehensive management and restoration
- Cooperation network created during LIFE project is very important in water management → network needs constant maintenance
- Volunteers are important → more things get done
 → more resources in use
- Lake Lohjanjärvi important site for volunteer surveillance → volunteer monitoring part of water monitoring elsewhere in Finland





Implementation of WFD in the area 2/2

- Barriers for fish migration decrease the ecological classification of rivers
- a wide survey on barriers for fish migration was conducted during the LIFE project
- Surveys give significant information for other restoration activities e.g. for construction of wetlands





Challenges during the project

- Large group of partners
 - Communication with partners took a lot of time → however, the positive effect of this communication can be seen afterwards
- Original project plan
 - Its difficult to make modifications during the project
- Heavy bureaucracy
 - E.g. reporting took longer than expected
 - → More flexibility and less bureaucracy







Examples of innovations

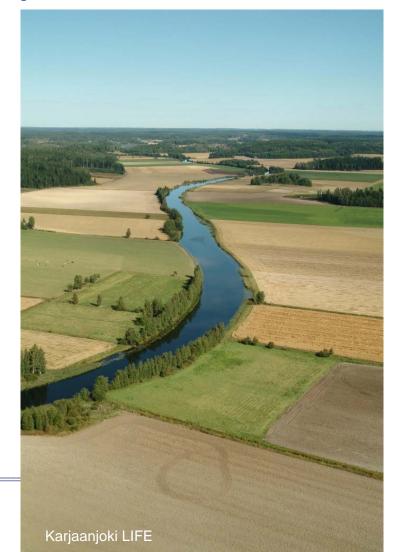
- Volunteer work
- Networking
- Agriculture and forestry
 - Computer software help in minimising nutrient load and erosion





Was LIFE helpful?

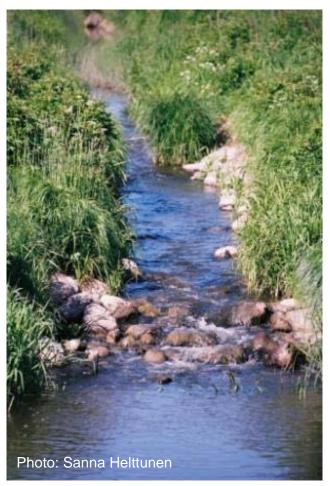
- LIFE funding made networking possible
- Numerous projects
 continue the work after
 LIFE project





Suggestions for dissemination

- More active role for LIFE unit for passing on information
- Searching of results and data should be easier
 - Better organised information bank
 - Keywords for internet searches





Publications

- Karjaanjoki LIFE book
- Reports 54
- Manuscripts 17
- Scientific publications 2
- Brochures 1
- Thesis 2
- International conferences 7
- Visits of international groups 2





After LIFE

- Restoration of Lake Hiidenvesi 2008-2011 –project www.hiidenvesi.com
- Uusimaa Lake Center project (PORLA) (www.porla.fi)
- Fish passage and stream survey projects
 - E.g. Finnish society for stream conservation (www.virtavesi.com)
- MaaSää and Envisense
 - (<u>https://portal.mtt.fi/portal/page/portal/www/Hankkeet/Maasaa</u>)
- VeKuMe-project (FEI Finnish Environment Institute)
- UNESCO HELP → Karjaanjoki river basin part of HELP
- Water quality service- project (part of TEKES Water Programme)
- LIFE+ Environment Policy and Governance 2007, (GISBLOOM application)







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